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APPLICATION NO.	FILIN	G DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/710,901	08/11/2004		Rong Huang		4900	
75	590	04/18/2006		EXAMINER		
RONG HUAN	. —		SAYADIAN	SAYADIAN, HRAYR A		
8601 Middleton Circle Harrisburg, NC 28075			ART UNIT	PAPER NUMBER		
1			2828			
				DATE MAILED: 04/18/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application	No.	Applicant(s)	· · · · · · · · · · · · · · · · · · ·
Office Action Summary		10/710,901		HUANG, RONG	
		Examiner		Art Unit	
		Hrayr A. Saya		2828	
The MAILING DATE of this of Period for Reply	communication app	pears on the co	ver sheet with the o	correspondence address	
A SHORTENED STATUTORY PE WHICHEVER IS LONGER, FROM - Extensions of time may be available under the after SIX (6) MONTHS from the mailing date of if NO period for reply is specified above, the non- Failure to reply within the set or extended perion Any reply received by the Office later than three earned patent term adjustment. See 37 CFR	THE MAILING DA e provisions of 37 CFR 1.1 of this communication. naximum statutory period vood for reply will, by statute ee months after the mailing	ATE OF THIS 36(a). In no event, will apply and will ex e, cause the applicat	COMMUNICATION however, may a reply be tin pire SIX (6) MONTHS from ion to become ABANDONE	N. nely filed the mailing date of this communic D (35 U.S.C. § 133).	
Status)		
1) Responsive to communication	on(s) filed on <u>27 O</u>	october 2005.			
2a) ☐ This action is FINAL .	2b)⊠ This	action is non-	final.		
3) Since this application is in c		•			ts is
closed in accordance with th	ne practice under E	Ex parte Quay	e, 1935 C.D. 11, 48	53 O.G. 213.	
Disposition of Claims					
4) ☐ Claim(s) <u>1-5</u> is/are pending 4a) Of the above claim(s) 5) ☐ Claim(s) is/are allowe 6) ☐ Claim(s) <u>1-5</u> is/are rejected. 7) ☐ Claim(s) is/are object 8) ☐ Claim(s) are subject	is/are withdrawed.				
Application Papers					
9) The specification is objected 10) The drawing(s) filed on Applicant may not request that Replacement drawing sheet(s) 11) The oath or declaration is ob	is/are: a) acc any objection to the including the correct	epted or b) drawing(s) be to tion is required	neld in abeyance. See if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.1	
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a) All b) Some * c) No 1. Certified copies of the	one of: priority document priority document copies of the prio nternational Bureau	ts have been r ts have been r rity document u (PCT Rule 1	eceived. eceived in Applicati s have been receive 7.2(a)).	ion No ed in this National Stage	Đ
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing 3) Information Disclosure Statement(s) (PTO Paper No(s)/Mail Date 8-11-2004.			Interview Summary Paper No(s)/Mail Do Notice of Informal F		

Art Unit: 2828

DETAILED ACTION

Please Secure Services of Registered Attorney/Agent

1. An examination of this application reveals that applicant is unfamiliar with patent prosecution procedure. While an inventor may prosecute the application, lack of skill in this field usually acts as a liability in affording the maximum protection for the invention disclosed. Applicant is advised to secure the services of a registered patent attorney or agent to prosecute the application, since the value of a patent is largely dependent upon skilled preparation and prosecution. The Office cannot aid in selecting an attorney or agent.

A listing of registered patent attorneys and agents is available on the USPTO Internet web site http://www.uspto.gov in the Site Index under "Attorney and Agent Roster." Applicants may also obtain a list of registered patent attorneys and agents located in their area by writing to the Mail Stop OED, Director of the U. S. Patent and Trademark Office, PO Box 1450, Alexandria, VA 22313-1450.

Defective Oath/Declaration

The Oath/Declaration was not properly executed. The entry representing Applicant's electronic signature must be in-between "/.../." See, 37 C.F.R. §1.4(d)(2).

A corrected supplemental oath declaration is required.

Claim Rejections - 35 U.S.C. § 112

- 2. The following is a quotation of the second paragraph of 35 U.S.C. § 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Regarding claim 3, the phrase "such as" renders the claim indefinite because it is unclear whether the limitations following the phrase are part of the claimed invention. See MPEP § 2173.05(d).
- 4. Regarding claims 3 and 4, the phrase "100 GHz, 50 GHz, etc." render the claim indefinite because it is unclear what "etc." covers.

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Claim Rejections - 35 U.S.C. § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 6. Claims 1-5 are rejected under 35 U.S.C. 102(b) as being anticipated by PGPUB US 2003/0112500 of patent application submitted by Miki et al. [hereinafter "Miki"].

With respect to Claim 1:

Miki discloses wavelength locked thermally tunable laser comprising: A semiconductor laser (element 31 of FIGs. 3A/3B), whose output wavelength [is] adjusted thermally and continuously; A wavelength locker, comprising: (a) a solid etalon (34), whose free space range or its physical thickness relates to the temperature characteristics of said semiconductor laser; (b) a first photo detector (33b) for detecting a collimated light (lens 32/32a) extracted from said semiconductor laser and transmitting through said solid etalon; (c) a second photo detector (33a) for detecting the power output of said semiconductor laser; Said semiconductor laser and wavelength locker packaged on one single platform (22b); The temperature of said platform, semiconductor laser and solid etalon adjusted (see, for example, the last sentence of [0055]) by a thermal electrical cooler (21); A temperature detecting element (39) disposed near said solid etalon for detecting the ambient temperature of said etalon (see, for example, [0047]-[0054], describing detecting the etalon's ambient temperature and its control); A means (lead pins 11c shown in FIG. 2, as described in [0045]) of locking the wavelength of said semiconductor laser to a specific wavelength by an outside electronic controller.

With respect to claim 2:

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The recited features describe the inherent characteristics of Fabry-Perot etalon (34). All Fabry-Perot etalons have at least two parallel surfaces that are partially reflecting/transmitting. And all solid etalons have thicknesses.

With respect to claims 3 and 4:

The recitation of equations describing the FSR of an etalon and its thickness as temperature varies do not further narrow the scope of claims 3 and 4 because the FSR and thickness of the etalon naturally depends in the manner recited.

With respect to claim 5:

The processor the lead pins 11c (in FIG. 2 of Miki) carry the info to is the means recited in the claim.

CLOSURE

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hrayr A. Sayadian whose telephone number is (571) 272-7779. The examiner can normally be reached Monday through Friday, 7:30 am-4:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Minsun O. Harvey can be reached on (571) 272-1835. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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MINSUN OH HALVEY PRIMARY EXAMINER